

## **SUBCUTANEOUS CARDIAC STIMULATION SYSTEM WITH PATIENT ACTIVITY SENSING**

### **ABSTRACT OF THE DISCLOSURE**

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A system includes a housing with energy delivery circuitry and detection circuitry. One or more electrodes are coupled to the circuitry and used to sense cardiac and muscle activity. A processor is coupled to the energy delivery and  
10 detection circuitry. The processor may detect a ventricular arrhythmia using a cardiac signal developed from the sensed cardiac activity and may also detect an activity state of the patient using an activity signal developed from the sensed muscle activity. The processor modifies delivery of a therapy to treat the arrhythmia in response to the activity signal. A method involves detecting signals using  
15 subcutaneous electrodes, and discerning a cardiac signal and a patient activity signal from the detected signals. Arrhythmia therapy may be modified to treat the arrhythmia in response to the activity signal.